

ABSTRACT

PT Freeport Indonesia is an enterprise conducting in copper and gold mining. PT. Freeport Indonesia operates and conducts its mining in the area of Tembagapura, the regency of Mimika, the province of Papua in the western region of Indonesia. It is conducted the mining activity using openly mining and undergrounded mining. And one of them is undergrounded mining of DOZ. The job programs performed by the Department of K3 are focused mainly to handle the surrounding problems of job safety, but it is a pity that it gets not the serious handling the problems of healthy job, especially in how to handle the problems of appropriateness of the used self-protector tools.

In Indonesian, Shotcrete means “beton tembak”. More precisely, shotcrete means that a compound consisted of cement, cobblestone, water, plastic fiber or steel, and all of additional mixture that sprayed using the high pressured of air.

This study was conducted using the consideration of analyzes to use the correct *goggles* to achieve the convenient situation in order to get the safety work in the occupation of shotcrete. *Safety Goggles* is a tool used to protect the eyes with good resistance to the shelf of chemical liquid materials such as Glenium 270B, and its construction has rubber in two sides that covered in the eyes circles.

It is really crucial the analyze of how to use *goggles* because the workers often perform the *shotcrete* jobs without using *goggles*, so that they get some problems on their eyes.

This study aimed to : 1) Analyze the use of *goggles* when the workers perform *shotcrete* jobs in the location of undergrounded mining of DOZ of PT. Freeport Indonesia; 2) Analyze the constraint of the unconvenient situation experienced by the workers when they use *goggles* to perform *shotcrete* jobs in the undergrounded mining of DOZ of PT. Freeport Indonesia; 3) Get the controlling actions to handle the unconvenient use of *goggles* when they perform *shotcrete* jobs in the undergrounded mining of DOZ of PT. Freeport Indonesia.

It could be achieved from the study some following results: 1) Workers of *shotcrete* jobs have to use *safety goggles* because of its good resistance to the chorosive chemical liquid, and its rapid construction. The current used *goggles* is oftenly dewed and scratched; 2) The dewed process occurred in *safety goggles* is caused by the heat produced by the roboshoot machine and poor ventilation; 3) The questionnaires about the inconvenient situation gave the procentage of their influences was 100%. There was some differences of age and level of education in the use of *googles* when the workers performed their jobs; 4) Workers who had more than 40 years old prefer to use *googles* compared with the others who had less than 40 years old. Crews who were graduated from vocational high schools and diploma prefer to use *safety goggles*.